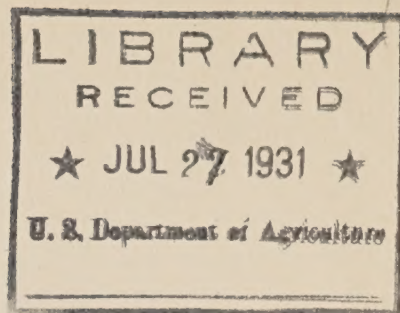


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United States Department of Agriculture
Director of Scientific Work
Washington, D. C.

July 1, 1931.

Dr. A. F. Woods, Director of the Graduate School,
and Members of the Graduate School Council.

Gentlemen:

Following is the annual report of the Graduate
School of the United States Department of Agriculture
for the school year of 1930-31:

The school opened the week beginning October 20,
1930, and the last class was held June 23, 1931.

Twenty-two courses were offered and twenty were
conducted, two having been withdrawn because of lack of
students. Of the 20 courses given during the year 10
were graduate courses and 10 undergraduate. The gradu-
ate courses were--

- (1) Advanced Inorganic Chemistry, by Dr. H. G. Byers.
- (2) Plant Genetics, by Dr. W. B. Kemp.
- (3) Soil Genesis and Classification, by Dr. Curtis F. Marbut.
- (4) The Population of the Soil and Its Significance, by Dr. Charles Thom.
- (5) Advanced Statistical Methods, by Mr. C. F. Sarle, assisted by Mr. R. Hale and Mr. Oris V. Wells.
- (6) Economic Theory, by Mr. E. J. Working.
- (7) History of American Agriculture, by Mr. Everett E. Edwards.
- (8) Business Cycles in Relation to Agriculture, by Mr. L. H. Bean.
- (9) Advanced Course in Statistics for Biological Workers, by Dr. W. B. Kemp.
- (10) Plant Anatomy, by Dr. Ernst Artschwager.

The Undergraduate courses were--

- (1) Glass Blowing, by Dr. Leland B. Clark.
- (2) Biochemistry, Especially in Relation to Animals, by Dr. Paul E. Howe. (second semester graduate work)
- (3) Introductory Economic Entomology, by Dr. C. H. Popenoe.
- (4) Systematic Botany, by Dr. S. F. Blake.
- (5) Elementary Statistical Methods, by Mr. C. M. Purves, assisted by Mr. F. J. Hosking.
- (6) Interpreting Agriculture, by Mr. M. S. Eisenhower, assisted in first semester by Mr. J. R. Fleming.
- (7) Intermediate Scientific German, by Dr. Charles Drechsler.
- (8) Russian, by Dr. C. H. Leineweber.
- (9) Spanish, by Dr. C. H. Leineweber.
- (10)

Of the 10 graduate courses 4 consisted of 1 semester and 6 of two semesters, and of the 10 undergraduate courses 2 consisted of one semester and 8 of two semesters, one of these latter including also a graduate semester.

The 2 courses withdrawn were--

The History of the Fundamental Principles of Chemistry.
Scientific French.

The number of students registered this year was 505, compared with 331 in 1929-30, 226 in 1928-29, 218 in 1927-28, and 111 in 1926-27.

The following is a brief history of the 20 courses:

	Number students	Tuition \$	Sala- ries \$	Sur- plus \$	Defi- cit \$
(1) Advanced Inorganic Chemistry, 16	16	350.00	300	50.00	90.00
(2) Plant Genetics, 1 semester ..	9	135.00	150		15.00

	Number students	Tuition \$	Sala- ries \$	Sur- plus \$	Defi- cit \$
(3) Soil Genesis and Class- ification	20	311.50	150	161.50	00.00
(4) Population of the Soil and Its Significance	11	145.00	150	00.00	5.00
(5) Advanced Statistical Methods	51	1,110.00	600	510.00	00.00
(6) Economic Theory	27	545.00	300	245.00	00.00
(7) History of American Ag- riculture	8	204.00	300	00.00	96.00
(8) Business Cycles in Re- lation to Agriculture	9	129.00	150	00.00	21.00
(9) Advanced Course in Sta- tistics for Biologi- cal Workers	23	505.00	300	205.00	00.00
(10) Plant Anatomy	7	165.00	300	00.00	135.00
(11) Glass Blowing	22	383.00	600	00.00	217.00
(12) Biochemistry Especially in Relation to Animals	5	105.00	300	00.00	195.00
(13) Introductory Economic En- tomology	14	205.00	150	55.00	00.00
(14) Systematic Botany	15	303.00	300	3.00	00.00
(15) Elementary Statistical (16) Methods	226	3,753.50	1590	2,163.50	00.00
(17) Interpreting Agricul- ture	15	299.50	450	00.00	150.50
(18) German	10	220.00	300	00.00	80.00
(19) Spanish	7	105.00	150	00.00	45.00
(20) Russian	8	195.00	300	00.00	105.00
	503	9,168.50	6840	3,393.00	1004.50
French (withdrawn)	2	30.00			
	505	9,198.50			

Number of announcements of courses published during the year was	4
Number of announcements of courses distributed	10,000
Number of letters received	413
Number of letters sent out	512
Number of record cards made	506
Number of receipt cards issued	794

It is the policy of the School to bring noted lecturers here to lecture before the students, the members of the Department, and of other departments, and this policy has met with general approval. Last year seven such lecturers were brought here, that is--

Dr. H. H. Whetzel--A new type of plant pathological extension work.

E. R. Wilson, Social Science Research Council, Scientific Method in Economic Research.

J. R. Commons, University of Wisconsin, Evaluating Institutions as a Factor in economic change.

F. H. Knight, University of Chicago, Fact and interpretation in economics.

E. A. Goldenweiser, Federal Reserve Board, Experience in stabilizing price levels.

J. D. Black, Harvard University, Methods of analysis in agricultural economic research.

E. G. Nourse, Institute of Economics, Efforts and achievements in directing economic activities in agriculture.

This year we have had three lectures, that is

Prof. Samuel C. May, University of California, Work of the Bureau of Public Administration, University of California.

Dr. R. A. Fisher, Rothamsted Experiment Station, Development of the modern concepts of statistical theory - two lectures.

The following is a statement regarding finances
received and disbursed during the year:

Receipts:

Amount brought forward from 1929-30...	\$3,047.01	
Tuition	9,198.50	
Interest on deposits	58.83	
Interest on bonds	63.75	\$12,368.09

Expenditures:

Telegrams and express	3.17	
Treasurer's bond	5.00	
Supplies	528.99	
Refunds	128.00	
Salaries to instructors	6,840.00	
Salaries to secretary and Ass.Treas...	320.00	
Lectures	150.00	
Returned check	15.00	7,990.16
Balance		4,377.93
Government bonds		3,000.00
Grand total		7,377.93

Net balance this year, \$1,330.92. It is
suggested that the Treasurer be authorized to
invest \$3,000 in Government bonds.

Kellie E. Fealy

Administrative Assistant,
Secretary Graduate School.

1. The first part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.

2. The second part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom.